

GEARBOX FOR MOTOR VEHICLES

Abstract

A range gearbox with planetary gear (1) for motor vehicles intended to be connected to the output side of a basic gearbox. The ring gear (18) of the planetary gear is axially displaceable. The ring gear (18) can engage coupling rings (10, 16) alternatively. A synchronizing means or member (15) is intended to synchronize the rotational speed difference between the ring gear (18) and one or other coupling ring (10, 16). The synchronizing means (15) and the coupling ring (16) are arranged coaxially outside the ring gear (18). A second means or engagement member (25) for engaging the coupling ring (16) and a third means or engagement member (25, 25b) for driving said synchronizing means (15) are arranged on the external side, as seen radially, of the ring gear (18). The coupling ring (16) is arranged between the synchronizing means (15) and the first means (27).